

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE

fch
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/917,947	07/31/2001	Guido Kersten	KERS3001/JEK	1529
23364	7590	08/13/2004	EXAMINER	
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314				SHRADER, LAWRENCE J
		ART UNIT		PAPER NUMBER
		2124		

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/917,947	KERSTEN ET AL.	
	Examiner	Art Unit	
	Lawrence Shrader	2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 July 2001.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-14 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-14 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) •
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 11/20/2001.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because of an extraneous “(Fig. 1)” at the end of the Abstract text. Correction is required. See MPEP § 608.01(b).

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant’s use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase “Not Applicable” should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), “Sequence Listings” (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or
REFERENCE TO A “MICROFICHE APPENDIX” (See MPEP § 608.05(a). “Microfiche Appendices” were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A “Sequence Listing” is required on paper if the application discloses a nucleotide or amino

Art Unit: 2124

acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, 4 – 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Mazur, U.S. Patent 6,039,645.

In regard to claim 1:

A bank note processing machine comprising:

"sensors (5), a transport system (6), an input/output device (7), and

a control device (3) with an associated memory (4, 4a) which controls the elements of the bank note processing machine by means of software and/or data stored in the memory (4, 4a),

an interface (1) which makes it possible to couple memory systems (2) of different kinds to the bank note processing machine in order to alter, supplement, or replace the software and/or data stored in the memory (4, 4a)."

Mazur discloses a money processing machine comprised of a sensor (Figures 2 and 2 ref. S1 – S6), a transport system (Figure 2), an input/output device (Figure 3, ref. 52), a control

Art Unit: 2124

device (Figure 3), associated memory for control software (Figures 3 and 6, ref. 58 and 59), a memory interface for updating software from a different kind of memory (a PCMCIA interface column 108, lines 33 – 52, Figures 5 and 6).

In regard to claim 2, incorporating the rejection of claim 1:

“...wherein that the interface (1) is a standardized interface, in particular according to PCMCIA.”

The interface complies with the PCMCIA standard (column 10, lines 43 – 48).

In regard to claim 4, incorporating the rejection of claim 1:

“...wherein the memory (4, 4a) has a nonvolatile area (4), and after coupling of the memory system (2) to the interface (1) the software and/or data stored in the memory system (2) are stored in the nonvolatile area (4).”

Mazur discloses a nonvolatile resident memory coupled to an interface for updating by the flash card (column 8, lines 34 – 58).

In regard to claim 5, incorporating the rejection of claim 1:

“...wherein that the memory (4, 4a) has a volatile area (4a), and after coupling of the memory system (2) to the interface (1) the software and/or data stored in the memory system (2) are stored in the volatile area (4a).”

Mazur discloses a volatile resident memory may be used (RAM) and coupled to an interface for updating by the flash card (column 8, lines 34 – 58).

In regard to claim 6, incorporating the rejection of claim 1:

“...wherein data obtained in the bank note processing machine during operation are stored in the memory system (2).”

See Mazur column 7, lines 53 – 58; column 13, lines 41 – 43; and Figure 3, ref 52 for display of the count totals.

In regard to claim 7, incorporating the rejection of claim 1:

“...wherein the software and/or data stored in the memory system (2) are stored in encoded form, and the controller (3) is set up to decode the encoded software and/or data.”

Mazur discloses encoded software to handle various types of coins, and the controller is able to decode the information (column 1, lines 57 – 63).

In regard to claim 8:

“A method for operating a bank note processing machine whose elements and functions are controlled by means of data and/or software stored in the bank note processing machine, comprising altering, supplementing or replacing the data and software via a universal data link to enable the connection of a plurality of different memory systems to the bank note processing machine.”

Mazur discloses a method for loading software changes in a money processing machine comprised of a set of sensors (Figures 2 and 3 ref. S1 – S6), a transport system (Figure 2), an input/output device (Figure 3 ref. 52), a control device (Figure 3), associated memory for control software (Figure 3, ref. 58, 59), a memory interface for updating software from a different kind of memory (a PCMCIA interface column 10, lines 33 – 52, Figures 5 and 6).

In regard to claim 9, incorporating the rejection of claim 8:

“...including lastingly storing the data and/or software of the memory system in the bank note processing machine upon connection of a memory system.”

Mazur discloses a nonvolatile resident memory coupled to an interface for updating by the flash card (column 8, lines 34 – 58).

In regard to claim 10, incorporating the rejection of claim 8:

“...wherein the data and/or software of the memory system are used for controlling the bank note processing machine for the duration of connection of a memory system.”

Mazur discloses a control device (Figure 3) to control the money processing machine, associated memory for control software (Figure 3, ref. 58, 59), a memory interface for updating software from a different kind of memory (a PCMCIA interface column 10, lines 33 – 52, Figures 5 and 6).

In regard to claim 11, incorporating the rejection of claim 10:

“...including using the data and/or software of the memory system to control a test mode for the bank note processing machine.”

Mazur discloses a diagnostic test mode at column 14, lines 23 – 25.

In regard to claim 12, incorporating the rejection of claim 8:

“...including using the data and/or software of the memory system to control a user-specific mode for the bank note processing machine.”

Mazur discloses user specific modes at column 14, lines 23 – 25.

In regard to claim 13, incorporating the rejection of claim 8:

“...including storing data obtained in the bank note processing machine during operation in the memory system.”

See Mazur column 7, lines 53 – 58; column 13, lines 41 – 43; and Figure 3, ref 52 for display of the count totals.

In regard to claim 14, incorporating the rejection of claim 8:

"...including storing in encoded form the software and/or data stored in the memory system, and using the controller (3) to decode the encoded software and/or data."

Mazur discloses encoded software to handle various types of coins, and the controller is able to decode the information (column 1, lines 57 – 63).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hine, Jr., U.S. Patent 5,680,721.

In regard to claim 3, incorporating the rejection of claim 1:

"...wherein the memory system (2) has a drive (2b) and a storage medium (2a) which are suitable in particular for optical and/or magnetic recording."

Mazur discloses non-magnetic and non-optical storage systems in a currency processing system. However, Hine discloses a currency handling subsystem comprised of a floppy disk to record data output from the system and to upgrade software (column 9, lines 58 – 65; column 12, line 62 to column 13, line 5). Therefore, it would have been obvious to one skilled in the art at

Art Unit: 2124

the time the invention was made to modify the Mazue invention with a magnetic or disk as taught by Hine in order to easily maintain a history file of the currency processing and to easily process data in another location as taught by Hine at column 12, line 62 to column 13, line 5.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent 5,909,502 to Mazur, regarding loading software for a currency scanner.

U.S. Patent 5,467,405 to Raterman et al., currency discrimination and counting.

U.S. Patent 5,940,623 to Watts et al., software loading system for a coin wrapper.

U.S. Patent 6,070,012 to Eitner et al., upgrading software systems.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Shrader whose telephone number is (703) 305-8046. The examiner can normally be reached on M-F 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2124

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence Shrader
Examiner
Art Unit 2124

3 August 2004

Kakali Chaki
Kakali Chaki
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100